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Metallurgical Laboratoryhis document consists of 2

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Mr. C. E. Deniels. P.O. Box 1290 Wilmington. Delaware OFFICIAL USE ONLY

June 29, 1943

CLASSIFICATION CHANGED

Deer Mr. Daniels:

The Bakor Brothers Company of Toledo, Ohio was visited on June 21st, 1743. Machines operations are being carried out on the extraded burs. It is planted at the present time to continue operations here for no longer than 6 & 8 weeks

At the present time 4 (lephes ape writing in a guarded area. On Tune 21ct three lathes were rouning, two on waking that toget and one on the finishing operation. Tune production from the lather making the care is excessive. Tunes from the finishing exception are negligible.

A ventilation system has been agreation. The expanity of the system is 2700 subic feet for minute. The intake move are placed too high, in our opinion, being about 18" above the working hood or about 6"2" above the floor. The duct opening is an oval approximately at 114. When machining is being done, only a small fraction of the facto are carried into the exhaust system. At times fune production is heavy, due to excensive accomplation of whips in the fore-part of the pen-

Collection of the dust in the air was made with an electrostatio presipitator. The samples were measured on a Berchen electrometer. Sumple taken near lathe fl, numbering from door was 64 per cubic mater. Sample taken next adjacent lathe (#3) was 240 per cubic meter, Sample taken at lather \$2 was 50 per cubic meter. This lathe was producing very few funes, (Note: I feel that the first figure here is too low; the sample was not satisfactory.)

The plant has increased the sepasity of the scaling system on each In the allowing a greater volume of water to be thrown on the chips. In addition, a perforated pips has been connected to the scaling system. The burning ships in the borrow of the pan. The system is not as yet completely entisfactory, but the wrinninks is second. h pipe runs near the floor of the pen and eproye cooling naterial upon the machining centers. Prevention of fune formation is better than attempts at THE PURPOYALE

Storage of the metal was satisfactory. The chips are being packed in metal containers. At present eight large sixed metal containers are full and agait shipment. In addition, 12 - 15 small sized containers are also awaiting shipment. These, at present, are kept in the same room as that in which the machining operations are carried out.

l'sis doenment contains information affectio

6/29/43

A few days ago, a fire of scrap in a metal container sturted, consuming about 100 pounds of metal. The existence of the fire hexard when dealing with scrap aust always be kept in mind.

heneive about the possible toxic effects of the metal. Dr. Norwood gave a short talk to the men concerning what might occur, and what is extremely unlikely to occur. Susstions were suggested. It is hoped that the men will take a more retional attitude toward the material.

Dr. Borwood made arrangements for chest x-rays, uninalyses and blood counts at the mobin Bood Boghted in Toledo and he plans to return at a later date to do the mysical exeminations.

Racongendetions.

- 1. Arrangements should be made for shipping the scrap, or for storing it away from the working area. If it is to be stored in the working area, shipments should be on a bi-seekly busis. (Est. of 4 5 cans each existent.)
- 2. The present investigations on control of time production should be continued. It should be possible to so arrange the flow of coolant that little or no funce are produced. Similar systems should be installed on all cohes working the motal classwhere.
- 3. The venitlating intake openings should be redesigned to provide a greater persentage efficiency than they now possess.

Yours sincerely,

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J. J. Mokson, M.D. Hoelth Division.

JJN/W

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